

ABSTRACT OF THE DISCLOSURE

A lithium-containing complex oxide represented by General Formula: $\text{Li}_{1+x+\alpha}\text{Ni}_{(1-x-y+\delta)/2}\text{Mn}_{(1-x-y-\delta)/2}\text{M}_y\text{O}_2$ (where $0 \leq x \leq 0.15$, $-0.05 \leq x+\alpha \leq 0.2$, $0 \leq y \leq 0.4$; $-0.1 \leq \delta \leq 0.1$ (when $0 \leq y \leq 0.2$) or $-0.24 \leq \delta \leq 0.24$ (when $0.2 < y \leq 0.4$); and M is at least one element selected from the group consisting of Mg, Ti, Cr, Fe, Co, Cu, Zn, Al, Ge, Zr and Sn) is provided. The lithium-containing complex oxide contains secondary particles formed of flocculated primary particles. The primary particles have a mean particle diameter of 0.3 to 3 μm , and the secondary particles have a mean particle diameter of 5 to 20 μm . By using this lithium-containing complex oxide as a positive active material, a non-aqueous secondary battery having a high capacity, excellent cycle durability and excellent storage characteristics at a high temperature is achieved.

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